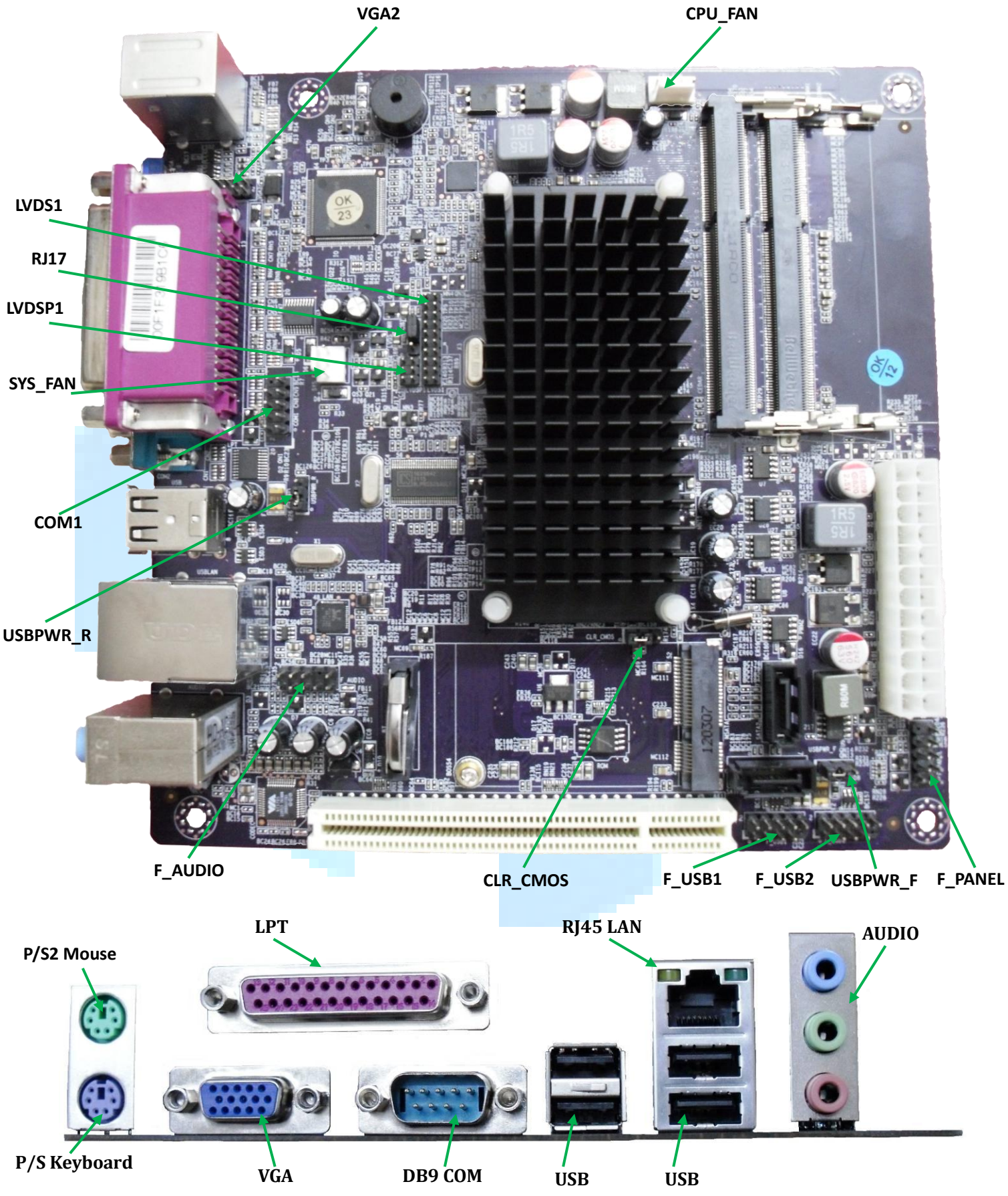
Intel-D2550-M-V5.0 User Guide

Specification

CPU	Intel® Atom™ Processor D2550 1M Cache, 1.86 GHz
Chipset	Intel® NM10 Express
Graphic Interface	Intel GMA 3650 graphics card (shared memory 128/224MB)
Memory	Single-channel DDR3 1066/800 memory architecture 2 x DDR3 SO-DIMM sockets support up to 4 GB Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows® 32-bit OS.
Storage	Support by Intel® NM10 Express 2 x Serial ATA 3.0Gb/s devices
Ethernet	Realtek 8105E 10/100 Lan
Audio	VIA® VT1705 6-channel High Definition audio CODEC
Other Port	2 * COM (1 DB9, 1 internal) 8 * USB2.0 (4 on panel, 4 internal) 1 * PS/2 keyboard and mouse ports (internal) 1 * Audio port (3 holes jack) 1 * D-sub(VGA) 1 * LVDS 1 * SATA 3Gb/s connectors 1 * MINI-PCIE(M-SATA) 1 * 24-pin ATX Power Supply connector 1 * CPU fan socket 1 * System fan socket 1 * LPT
Factor	Mini ITX 170x170mm

Jumper and Header Locations



Definition of Jumpers and Headers

[1] VGA2 Header (6*2 Pin 2.00 mm)

VGA

Pin	Definition	Pin	Definition
1	5VDDCSCL	2	5VDDCSDA
3	VCC_DDC	4	VSYNC
5	HSYNC	6	GND
7	RED_L	8	GND
9	GREEN_L	10	GND
11	BLUE_L	12	GND

[2] LVDS1 Header（10*2 Pin 2.00 mm）

LVDS

Pin	Definition	Pin	Definition
1	LCD_VDD	2	LCD_VDD
3	LCD_VDD	4	LCD_VDD
5	LDDC_CLK	6	LVDS_TXP0
7	LDDC_DATA	8	LVDS_TXN0
9	GND	10	GND
11	LVDS_TXP1	12	LVDS_TXP2
13	LVDS_TXN1	14	LVDS_TXN2
15	GND	16	GND
17	LVDS_TXN3	18	LVDS_CLKN
19	LVDS_TXP3	20	LVDS_CLKP

[3] LVDSP1 Header（3*2 Pin 2.00 mm）

LVDSPWR

Pin	Definition	Pin	Definition
1	VCC12M	2	VCC12M
3	BL_EN	4	RJ17 PIN 2
5	GND	6	GND

[4] RJ17 Header（3*1 Pin 2.00 mm）

LVDSPWR

Pin	Definition	Pin	Definition
1	PANEL_BKLCTL	2	LVDSP1 PIN 4
3	PCH_BKLCTL		

[5] Serial Port 1 Header（5*2 Pin 2.54 mm）

COM1

Pin	Definition	Pin	Definition
1	NDCD	2	NRXD
3	NTXD	4	NDTR
5	GND	6	NDSR
7	NRTS	8	NCTS
9	NRI		

[6] CPU Fan Header（4*1 Pin 2.54 mm）

CPU_FAN

Pin	Definition	Pin	Definition
1	GND	2	+12V
3	SENSE	4	GPO

[7] System Fan (3*1Pin 2.54 mm)

SYS_FAN

Pin	Definition	Pin	Definition
1	GND	2	+12V
3	SENSE		

[8] USB POWER Header（3*1 Pin 2.54 mm）

USBPWR_R

Pin	Definition	Pin	Definition
1	VCC	2	5V_DUAL_R
3	5VSB		

[9] USB POWER Header（6*2 Pin 2.54 mm）

USBPWR_F

Pin	Definition	Pin	Definition
1	VCC	2	5V_DUAL_F
3	5VSB		

[10] Audio Header（5*2 Pin 2.54 mm）

F_AUDIO

Pin	Definition	Pin	Definition
1	FP_MIC_R	2	GND
3	FP_MIC_L	4	+3.3 V
5	FP_OUT_R	6	GND
7	Jack Detect	8	N/A
9	FP_OUT_L	10	GND

[11] USB5~6 Header（5*2 Pin 2.54 mm）

F_USB1

Pin	Definition	Pin	Definition
1	VCC	2	VCC
3	DATA-	4	DATA-
5	DATA+	6	DATA+
7	GND	8	GND
9	N/A	10	OC

[12] USB7~8 Header（5*2 Pin 2.54 mm）

F_USB2

Pin	Definition	Pin	Definition
1	VCC	2	VCC
3	DATA-	4	DATA-
5	DATA+	6	DATA+
7	GND	8	GND
9	N/A	10	OC

[13] Front Panel Header（5*2 Pin 2.54 mm）

F_PANEL1

Pin	Definition	Pin	Definition
1	HD +	2	MSG/PD+
3	HD -	4	MSG/PD-
5	GND	6	PW+
7	RESET	8	PW-
9	N/C	10	N/A

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